

smORFs identification

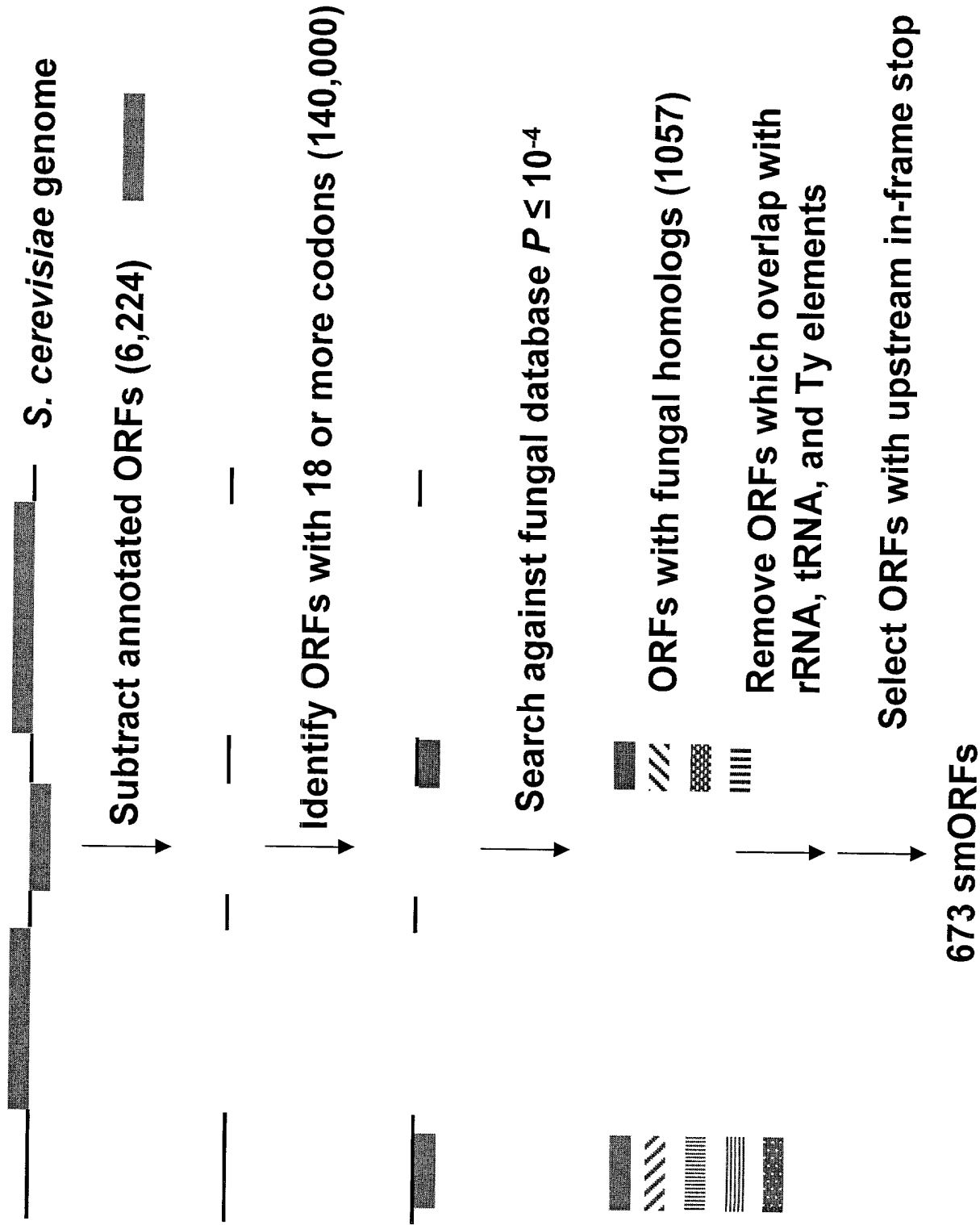
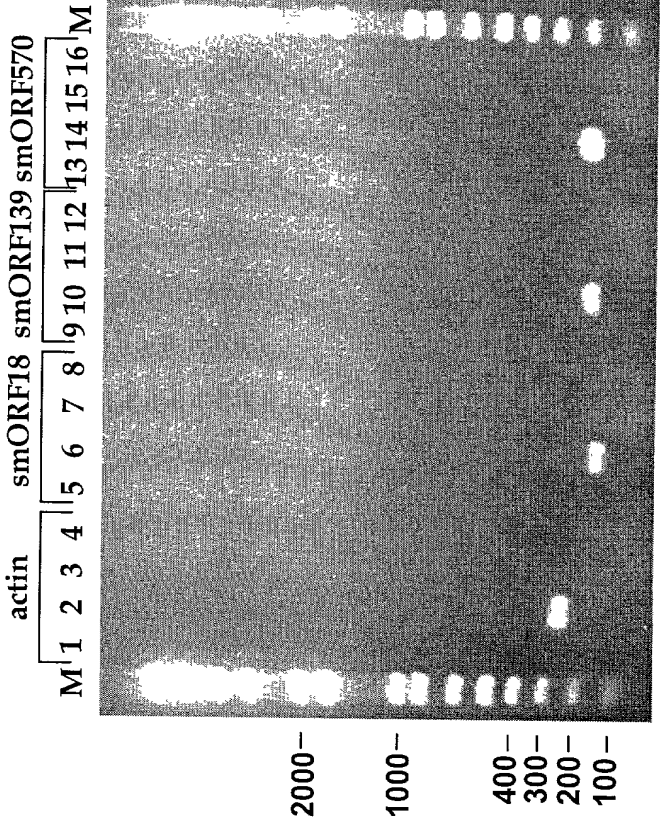


Fig. 1

20/2220" /SEEBOOK

A

PCR



B

RT-PCR

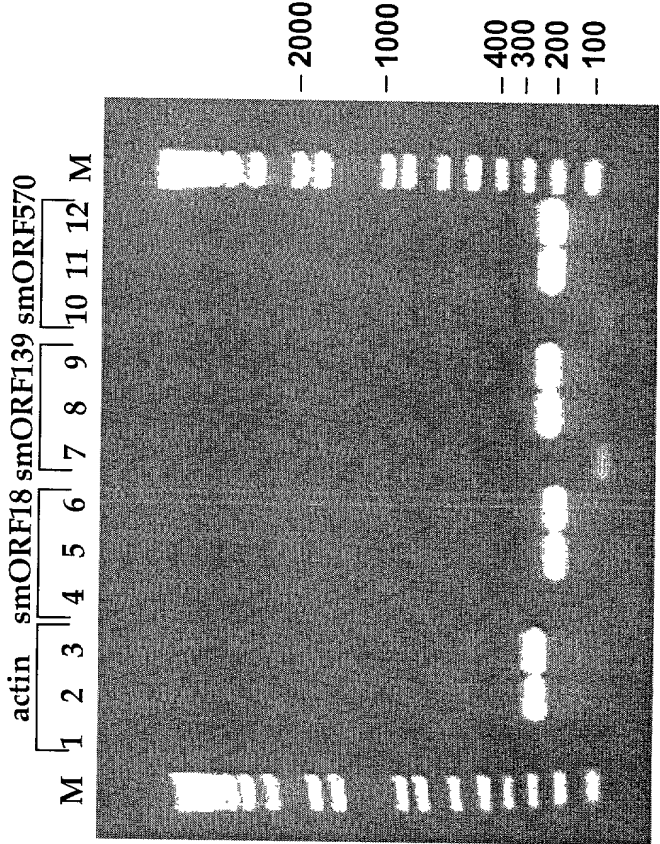


Fig. 2

Two step orientation-specific RT-PCR

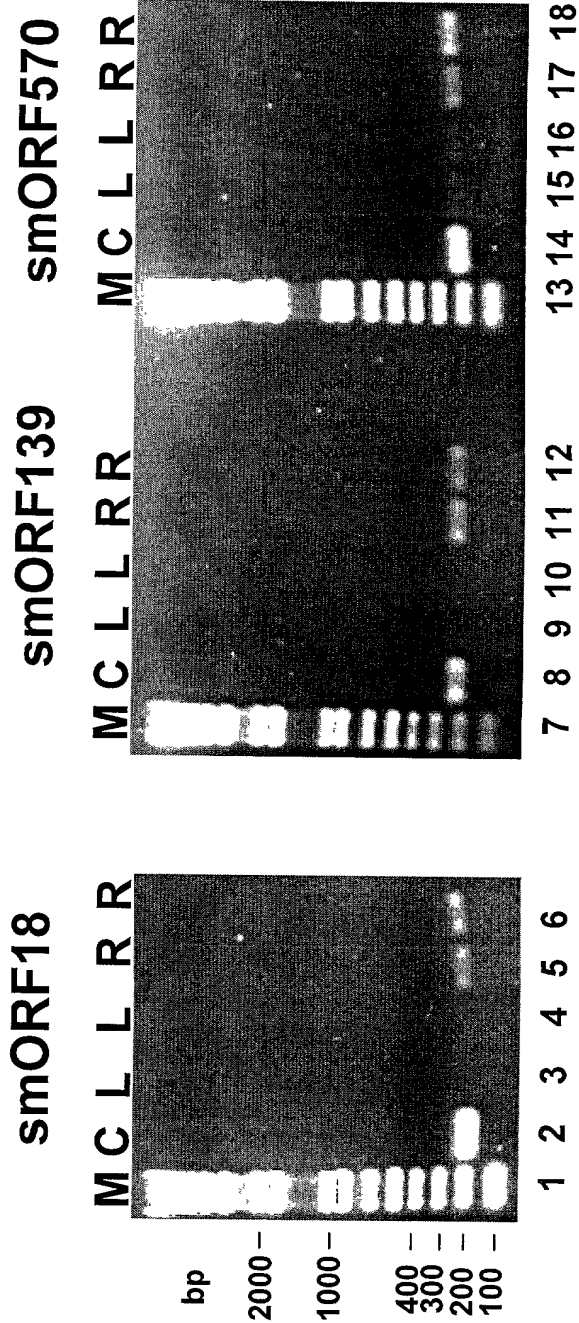
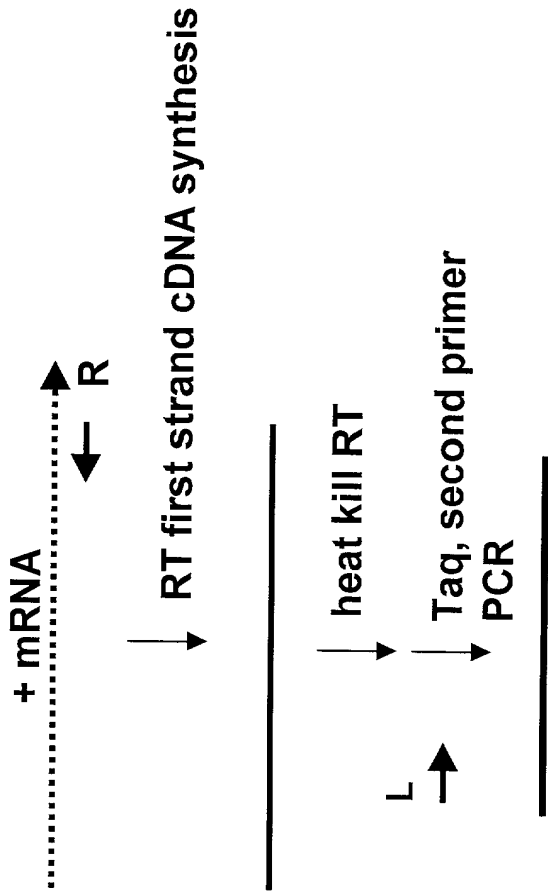
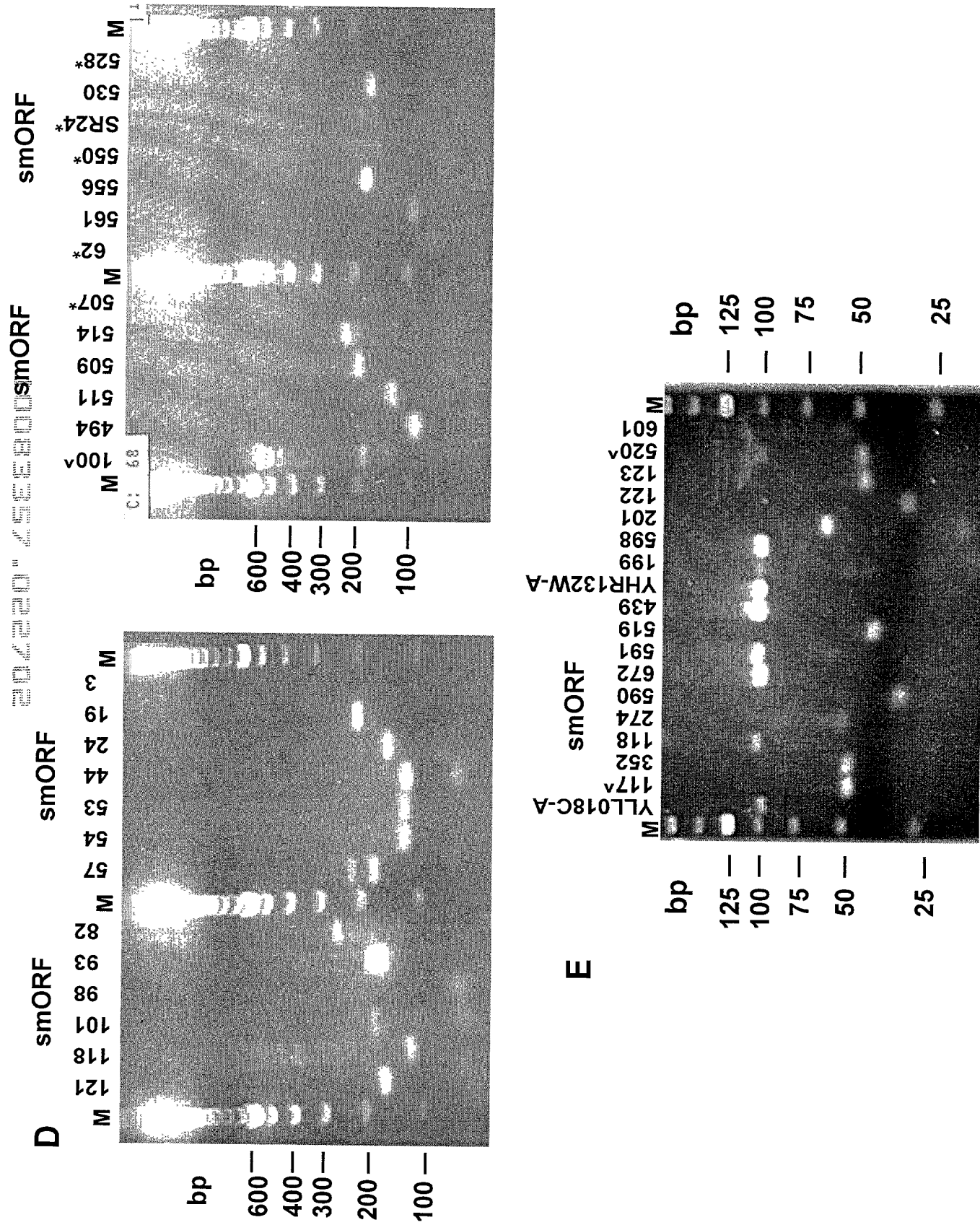


Fig. 2



smORF18

Dm : MSH---VHDEVEIEDFEYDEEEMYYPCPCGDRFCISKEELIIGEEVATCPSCSLVIKVIYDPEMHKAHEDEE--SALNEKLGDLKLEKN
Hs : MAV---FHDEVEIEDFQYDNDSEITYFYPCPCGDNFSIKEDLENGEAVATCPSCSLIIKVIYDKDQFVCGETVP--APS---ANKELVKC
Ce : MSV---FHDEVEIEDFEFDEKDVHYPCPCGDRFEIPREMLEMGEVQAQCPSCSLIRVIYDPEDFVKLFTIS--TSK---PIAEPV--
Sp : MS---FYDEIELEDFTFDAGTNLYTFPCPCGDRFAISADLQLGHEVARCPSCSLIRVIYDEDERMEVDNDA--STA---PIIITAA--
Sc : MS---TYDEIEIEDMFEPENMFTYPCPCGDRFCIYDDMFEGEKVAVCPSCSLMIDVWFQKEDLAEYYEENGHIPE--PIAATA--
Ca : ME---TIVDEIEIEDFTFDPVQOLFQYPCPCGDRFATISYDMOEGEDIAVCPSCSLMVKVIPEDELEYLEG-----PIAATA--
Af : MADEALSIVDEIEIEDMFDPNLQIHYPCPCGDRFPIADDLRDGEDIAVCPSCSLMIVIFEVSLLPKDGNOP--APGA---VSVQA--
An : MADEALSIVDEIEIEDMFDPANLQIHYPCPCGDRFPIADDLRYGEDIAVCPSCSLMIVIFDQSDLPKEEKKE--TEG---VSVKA--

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Sc : MPKRLSGLQKEVLFIYRASIRTAHFKPKENQVNFVNYYTHHEFGKYRNLPRKDFTHIEILLRVGNKKIATFSPHELNI--
Ca : MAR--LSGLQRDVLQIRKCIIRMVTKPTDTHHWRNFHHEFAKYCHLPKKQFNIEYLIIRNCHRKLENYLNPOLKNDI--
Af : MAR--LSGLQREVLSYRKCLREIRKKPSHIRGNFQYTRAEFKMSVSKDFSAIEYLLRKGNRQLEMYSSPGIRNIQ--
Sp : MA--LSGLQROVIIFYRROLHAAKAKEQPYNRWMAFVHQEFKQNLISKRFFFYIEILLRVGQRQYDAYSRPEVKDIFHS

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Sc : -----MSALFNFRSLLQVILLIICSQSYVHGQWPSLLDRYKNHEVIGAFWKMARVGERASPYVSNACILMAIS-----QFNS--
Ca : KPSISPTNALKSALFNFSLLQVILLICTCTYVHSTAPALLDNRK--SGILSVFWKFARIGERLSPYVALGCFIMAFN-----TISS--
Bt : -----MSAIFNFCSLIIVILLICTCAYIRSLAPSLDRNK--TGLLGI FWKCARIGERKSPYVAVGCTVMAFS-----ILFIQ--
Hs : -----MSAIFNFCSLIIVILLICTCAYIRSLAPSLDRNK--TGLLGI FWKCARIGERKSPYVAVGCTVMAFS-----ILFIQ--
Mm : -----MSAIFNFCSLIIVILLICTCAYIRSLAPSLDRNK--TGLLGI FWKCARIGERKSPYVAVGCTVMAFS-----ILFIQ--
Dm : -----MSAIFNFCSLIIVILLICTCAYIRSLAPSLDRNK--TGLLGI FWKCARIGERKSPYVAVGCTVMAFS-----ILFIQ--
Af : -----MSQALFNFCSLIIVILLICTSTYAHSTMPGIMDRNQ--RGFGLFWKCARIGERLSPYVSNACILMAVSTPRFYVILISNAY

Fig. 3

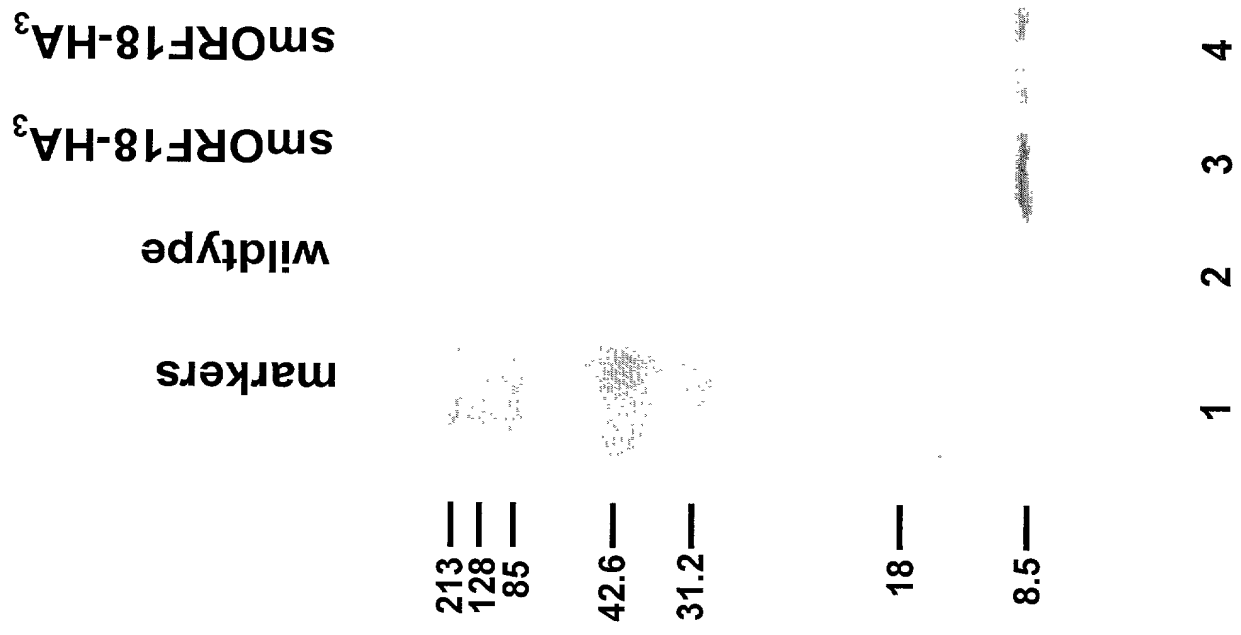


Fig. 4

FIG. 5
SEE FIG. 5

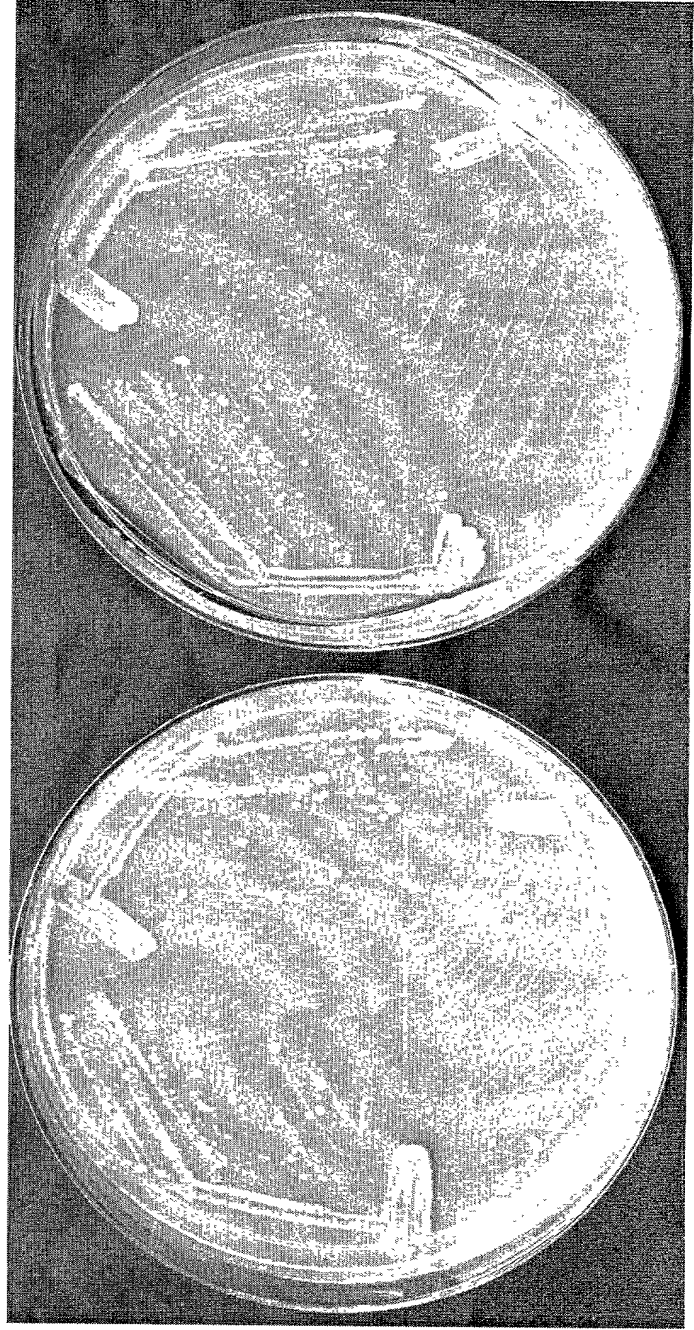
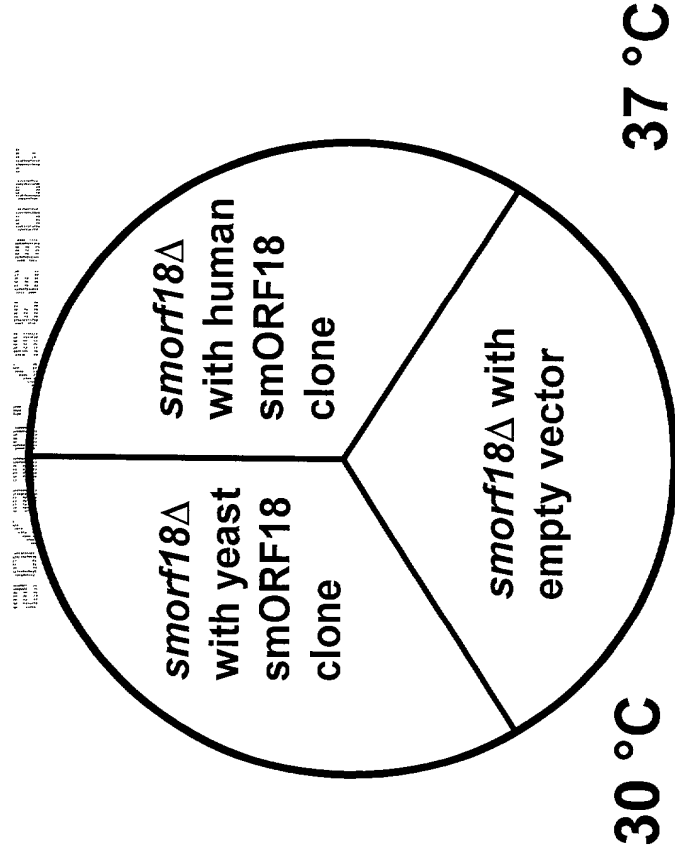


Fig. 5

smORF57 protein interaction map

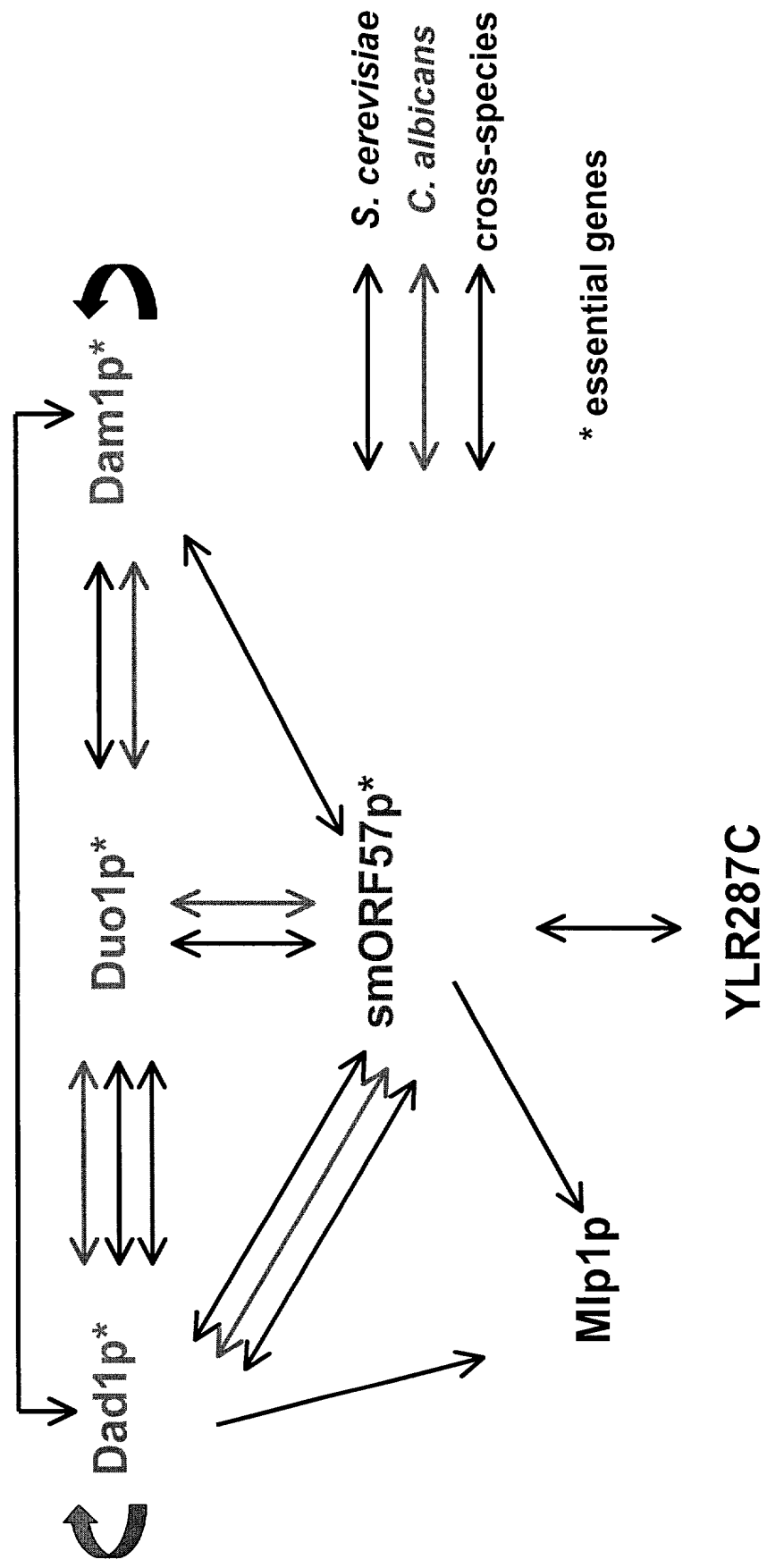


Fig. 6